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मानक

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“Step Out From the Old to the New”

IS 6292 (1986): Cotton Wool Holder, Dental [MHD 8: Dentistry]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SPECIFICATION FOR
COTTON WOOL HOLDER, DENTAL

(First Revision)

1. Scope — This standard specifies materials, dimensions and other requirements for dental cotton wool holder.

2. Materials

2.1 Container, Top Plate, Platform, Bottom Plate and Pins — Brass containing minimum 60 percent copper.

2.2 Spring — Spring steel wire conforming to IS : 4454 (Part 1) - 1981 'Specification for steel wires for cold formed springs : Part 1 Patented and cold drawn steel wires — unalloyed (*second revision*)'.

3. Shape and Dimensions — As shown in Fig. 1.

3.1 Tolerances on linear dimensions shall be as given below:

- a) ± 0.05 mm on dimensions up to 2.0 mm,
- b) ± 0.1 mm on dimensions above 2.0 mm and up to 5.0 mm,
- c) ± 0.2 mm on dimensions above 5.0 mm and up to 20.0 mm, and
- d) ± 0.5 mm on dimensions above 20.0 mm.

3.2 Tolerance on angular dimension shall be $\pm 2^\circ$.

4. Workmanship and Finish

4.1 The spring shall be soldered to the bottom plate and the platform. The top plate shall be soldered to the container all around. The soldering shall be neat and sound.

4.2 The ends of the pins shall be finished flush.

4.3 All surfaces shall be free from pits, burrs, tool marks and other surface defects.

4.4 There shall be no sharp edges.

4.5 The spring shall retain the cotton wool close to the aperture in the top plate.

4.6 The cotton wool holder shall be plated chromium over nickel. For the spring, the plating shall conform to Service Grade No. 2 of IS : 1068-1985 'Specification for electroplated coatings of nickel plus chromium and copper plus nickel plus chromium on iron and steel (*second revision*)'. The plating on the container, top plate, platform and bottom plate shall conform to Classification Cu/Ni 10b Cr r of Service Condition No. 2 of IS : 4827-1983 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys (*first revision*)'.

5. Marking and Packing

5.1 The cotton wool holder shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark; and the country of manufacture.

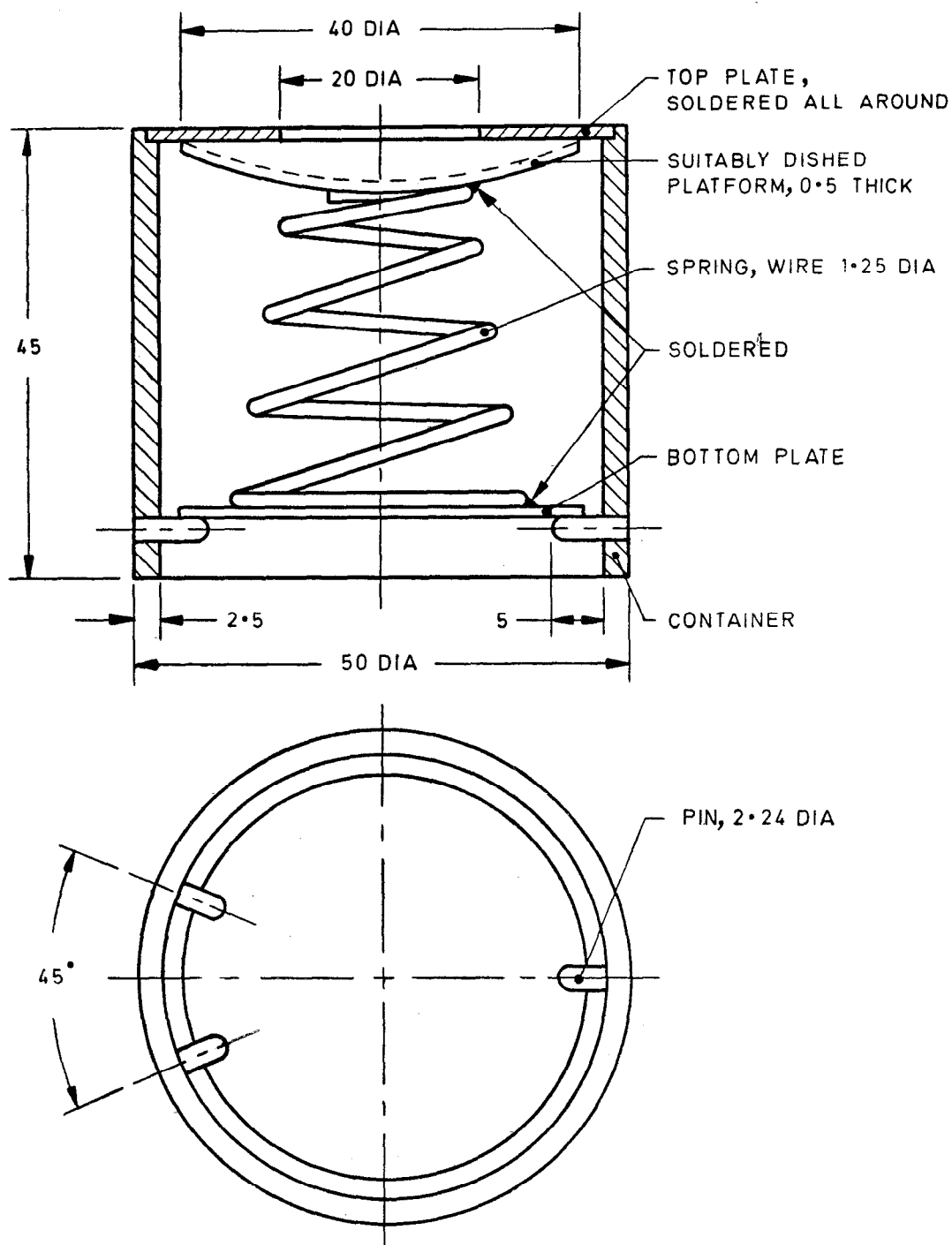
5.2 The holder shall be put in a polyethylene bag or wrapped in wax paper. It shall then be packed in a carton in accordance with the current trade practice.

5.2.1 Alternatively, the packing may be done as agreed to between the purchaser and the supplier.

Adopted 22 December 1986

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All dimensions in millimetres.
FIG. 1 COTTON WOOL HOLDER, DENTAL

5.3 The packages shall be marked with the name of the equipment; the manufacturer's name, initials or recognized trade-mark; and the country of manufacture.

5.4 Certification Marking— Details available with the Bureau of Indian Standards.

6. Sampling — Sampling procedure and acceptance criteria for the dental cotton wool holders shall be as agreed to between the purchaser and the supplier. A recommended scheme for the same is given in Appendix A.

APPENDIX A

(Clause 6)

**SAMPLING SCHEME AND CRITERIA FOR CONFORMITY
FOR COTTON WOOL HOLDERS, DENTAL**

A-1. Lot — In any consignment, all the cotton wool holders produced from the identical materials under similar conditions shall constitute a lot.

A-2. The number of cotton wool holders to be selected from each lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING
(Clauses A-2, A-3.1 and A-3.2)

Lot Size (1)	Sample Size (2)	Sub-sample Size (3)
Up to 8	2	1
9 to 50	3	1
51 to 100	5	2
101 and above	8	3

A-2.1 These cotton wool holders shall be selected from the lot at random and in order to ensure randomness of selection, procedures given in IS : 4905-1968 'Methods for random sampling' may be followed.

A-3. Number of Tests and Criteria for Conformity

A-3.1 All the cotton wool holders selected according to col 1 and 2 of Table 1 shall be examined for shape and dimensions and workmanship and finish (visual). A holder in the sample failing to meet any of these requirements shall be considered as defective. The lot shall be considered as conforming to these requirements if no defect is found in the sample.

A-3.2 The lot having been found satisfactory according to A-3.1 shall be further tested for the requirement of plating. For this purpose, a sub-sample of size given in col 3 of Table 1 shall be taken. These cotton wool holders in the sub-sample may be selected from those already examined according to A-3.1. Each holder in the sub-sample shall be tested for the requirement of plating given in 4.6. The lot shall be declared as conforming to the requirements of the specification if none of the holders in the sub-sample fails to meet this requirement.

EXPLANATORY NOTE

This standard was first issued in 1971. In this revision, tolerances on various dimensions have been specified and a recommended scheme of sampling has been added besides incorporating certain other modifications.